

Title (en)  
COMPOSITION AND LIGHT-EMITTING DEVICE USING THE SAME

Title (de)  
ZUSAMMENSETZUNG UND LICHEMITTIERENDE VORRICHTUNG DAMIT

Title (fr)  
COMPOSITION ET DISPOSITIF ÉLECTROLUMINESCENT L'UTILISANT

Publication  
**EP 3389105 B1 20210120 (EN)**

Application  
**EP 16872911 A 20161202**

Priority  
• JP 2015238657 A 20151207  
• JP 2016085890 W 20161202

Abstract (en)  
[origin: EP3389105A1] A composition, comprising: a phosphorescent compound represented by formula (1); and a phosphorescent compound represented by formula (2): (wherein M 1 represents an iridium atom or the like, n 1 denotes an integer of 1 or more, n 2 denotes an integer of 0 or more, n 1 + n 2 is 2 or 3, ring R 1A represents a triazole ring constituted of a nitrogen atom, E 1 , E 11A , E 12A , and a carbon atom, ring R 2 represents an aromatic hydrocarbon ring or the like, E 1 , E 2 , E 11A , and E 12A represent a nitrogen atom or the like, R 11A and R 12A represent an aryl group or the like, R 13A represents an aryl group or the like, A 1 -G 1 -A 2 represents an anionic bidentate ligand, A 1 and A 2 represent a nitrogen atom or the like, and G 1 represents a single bond or the like) (wherein M 2 represents an iridium atom or the like, n 3 denotes an integer of 1 or more, n 4 denotes an integer of 0 or more, n 3 + n 4 is 2 or 3, E L represents a hydrogen atom or a nitrogen atom, ring L 1 represents a 6-membered aromatic heterocyclic ring or the like, ring L 2 represents an aromatic hydrocarbon ring or the like, at least one ring selected from the group consisting of ring L 1 and ring L 2 has a group represented by formula (1-T), A 3 -G 2 -A 4 represents an anionic bidentate ligand, A 3 and A 4 represent a nitrogen atom or the like, and G 2 represents a single bond or the like), and #####-R 1T ##### (1-T) (wherein R 1T represents an alkyl group or the like).

IPC 8 full level  
**C07F 15/00** (2006.01); **C09K 11/06** (2006.01); **H10K 99/00** (2023.01)

CPC (source: EP KR US)  
**C07F 15/0033** (2013.01 - US); **C07F 15/006** (2013.01 - US); **C07F 15/0073** (2013.01 - US); **C07F 15/0086** (2013.01 - US); **C09K 11/06** (2013.01 - EP KR US); **H10K 50/11** (2023.02 - KR US); **H10K 85/341** (2023.02 - KR); **H10K 85/342** (2023.02 - EP US); **H10K 85/346** (2023.02 - US); **C07F 15/00** (2013.01 - EP US); **C09K 2211/185** (2013.01 - KR); **H10K 50/11** (2023.02 - EP); **H10K 50/15** (2023.02 - US); **H10K 2101/10** (2023.02 - EP US); **H10K 2101/90** (2023.02 - EP US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3389105 A1 20181017**; **EP 3389105 A4 20190731**; **EP 3389105 B1 20210120**; CN 108369993 A 20180803; CN 108369993 B 20200327; JP 6804465 B2 20201223; JP WO2017099013 A1 20181101; KR 20180090311 A 20180810; US 2018354978 A1 20181213; WO 2017099013 A1 20170615

DOCDB simple family (application)  
**EP 16872911 A 20161202**; CN 201680071279 A 20161202; JP 2016085890 W 20161202; JP 2017555046 A 20161202; KR 20187018583 A 20161202; US 201615781324 A 20161202